

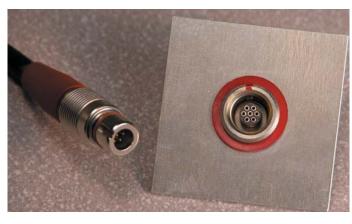
Metal-Shell Micro Circular

DESCRIPTION

- Small, circular connector for Medical and Industrial applications
- 2 shell sizes M11 (7 pos.) and M14 (19 pos.)

KEY FEATURES

- Push to mate, pull to release coupling mechanism
- High performance at lower cost
- · High density for limited space applications
- Multiple shell sizes and keying configurations



APPLICATIONS

- Medical Equipment, Instrumentation, Military and Aerospace
- Rugged Industrial Environments
- Outdoor Applications
- Resistant to autoclaving (1000 cycles @ 275°F [135°C]) or chemical sterilization (500 cycles)
- Precision, screw machine contacts
- No assembly or application tools required
- Environmentally sealed in mated condition (IP67) and shielded

ELECTRICAL

Current Carrying Capacity: 2 Amp

Operating Voltage: 200 VAC max.

• Termination Resistance: 20 mOhm max.

MECHANICAL

- Push/pull, positive lock coupling
- 500 minimum mating cycles with screw machine pin and socket contacts
- 5000 minimum mating cycles with spring probe contacts
- Overmold or heat-shrink tubing for sealing and strain relieving
- Wire Size: 24-30 AWG [0.2-0.06 mm²]
- Termination: Solder
- Max. Operating Temperature: 300°F [149°C]

MATERIALS

- Spring Probe Pin: Brass, 10 µin. [.25 µm] gold finish over nickel on mating end, tin-lead over nickel on solder cup/tail
- Spring Probe Pad: Brass, 30 μin. [.76 μm] gold finish over nickel on entire contact
- Screw Machine Pin: Brass, 30 µin. [.76 µm] gold finish over nickel on entire contact
- Screw Machine Socket:
 - Brass body: beryllium copper clip, 30 μin. [.76 μm] gold flash over nickel
- Clip: tin-lead over nickel body
- Housing: Nickel plated brass
- Insulator: High temperature thermoplastic, white

FOR MORE INFORMATION

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In Development

Metal-Shell Micro Circular

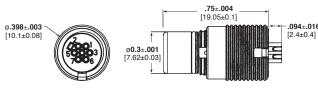
PRODUCT DIMENSIONS

Shell Size M11 (7 Position shown)

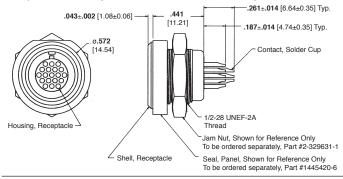
Receptacle Assembly, Rear Panel Mount, Solder Tail

-.481±.010 [12.21±0.25] -.335±.014 [8.51±0.35] -.293±.010 [7.44±0.25] -.25±.005 [6.35±0.13] Shell, Receptacle ø.393 ± .007 [9.98±0.18] .125±.014 [3.17±0.35] Contact, Solder Post 7/16-28 UNEF-2A Thread Seal, Panel, Shown for Reference Only ∠ Housing, Receptacle To be ordered separately, Part #1445420-3 Jam Nut. Shown for Reference Only To be ordered separately, Part #2-1532077-4

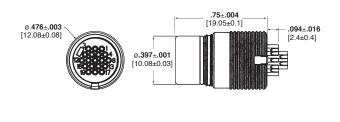
Plug Assembly



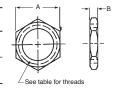
Shell Size M14 (19 Position shown) Receptacle Assembly, Front Panel Mount, Solder Cup



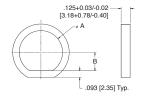
Plug Assembly



Jam N	Jam Nuts						
Shell	Shell Dimensions			Part	Panel		
Size	Α	В	Thread	Number	Mount		
M11	0.500 [12.7]	0.093 [2.36]	7/16-28 UNEF-2B	1604197-1	Rear		
	0.500 [12.7]	0.125 [3.18]	3/8-32 UNEF-2B	1-330249-1	Front		
M14	0.750 [19.05]	0.093 [2.36]	9/16-24 UNEF-2B	1811277-3	Rear		
IVIIT	0 563 [14 20]	0 003 [2 36]	1/2-28 LINEE-2B	2-329631-1	Front		

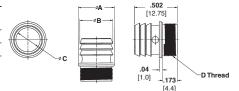


Panel	Seals			
Shell	Dimer	nsions	Part	Panel
Size	Α	В	Number	Mount
M11	0.430 [10.9]	0.177 [4.5]	1445420-3	Rear
10111	0.364 [9.25]	0.165 [4.2]	1445420-4	Front
M14	0.551 [14.0]	0.236 [6.0]	1445420-5	Rear
10114	0.492 [12.5]	0.207 [5.25]	1445420-6	Front



Overmold Adapter

Shell	Dir	nensions	ons Part		Part
Size	Α	В	С	IIIIeau	Number
M11	.326 [8.29]	.295 [7.5]	.193 [4.9]	5-16 - 32 UNEF-2A	1604366-4
M14	.424 [10.76]	.385 [9.8]	.283 [7.2]	0.380-64 Special	1604366-3



PRODUCT OFFERING

			Front Panel Mount Receptacle		Rear Panel Mount Receptacle		
Contact	Shell	No. of	Solder	Solder	Solder	Solder	Plug
System	Size	Pos.	Cup	Tail	Cup	Tail	Solder Cup
Spring	M11	7	1604446-1	1604440-1	1604443-1	1604215-1	1604213-1
Probe	M14	19	1738477-1	1604449-1	1604472-1	1604444-1	1604481-1
Pin &	M11	7	1604448-1	1604527-1	1604502-1	1604392-1	1604515-1
Socket	M14	19	1604471-1	1604441-1	1604480-1	1604131-1	1604512-1